

FIG. 1A

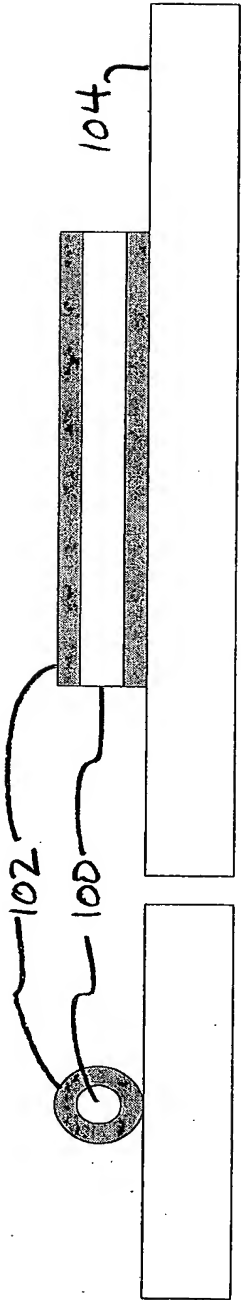


FIG. 1B

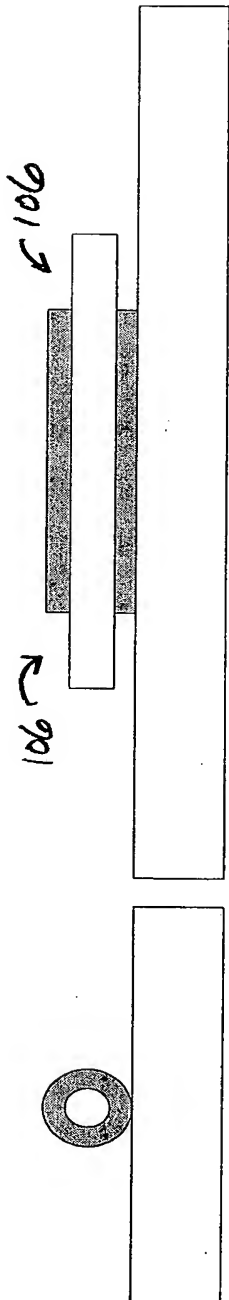


FIG. 1C

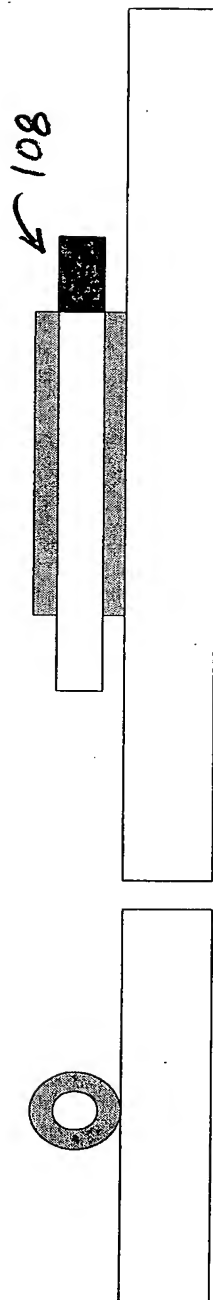


FIG. 1D

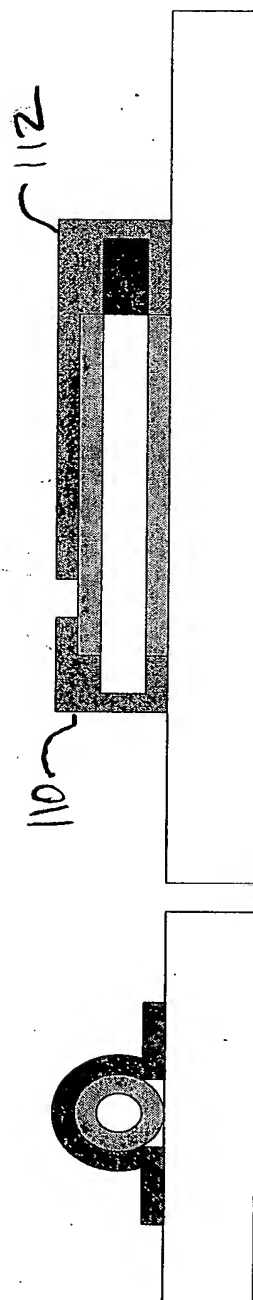
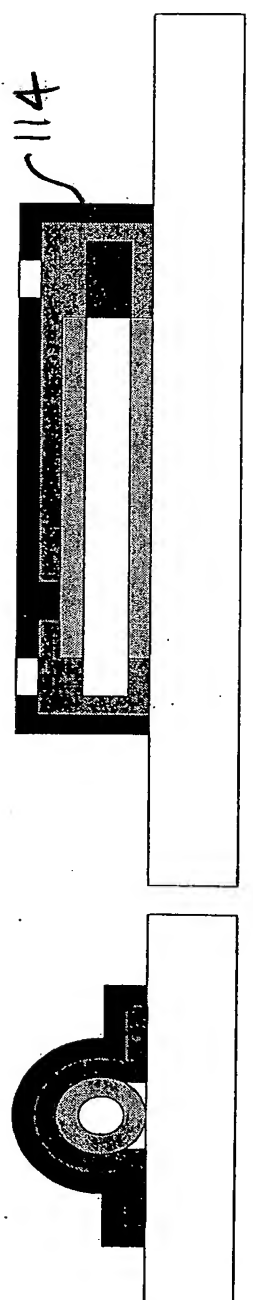


FIG. 1E



200

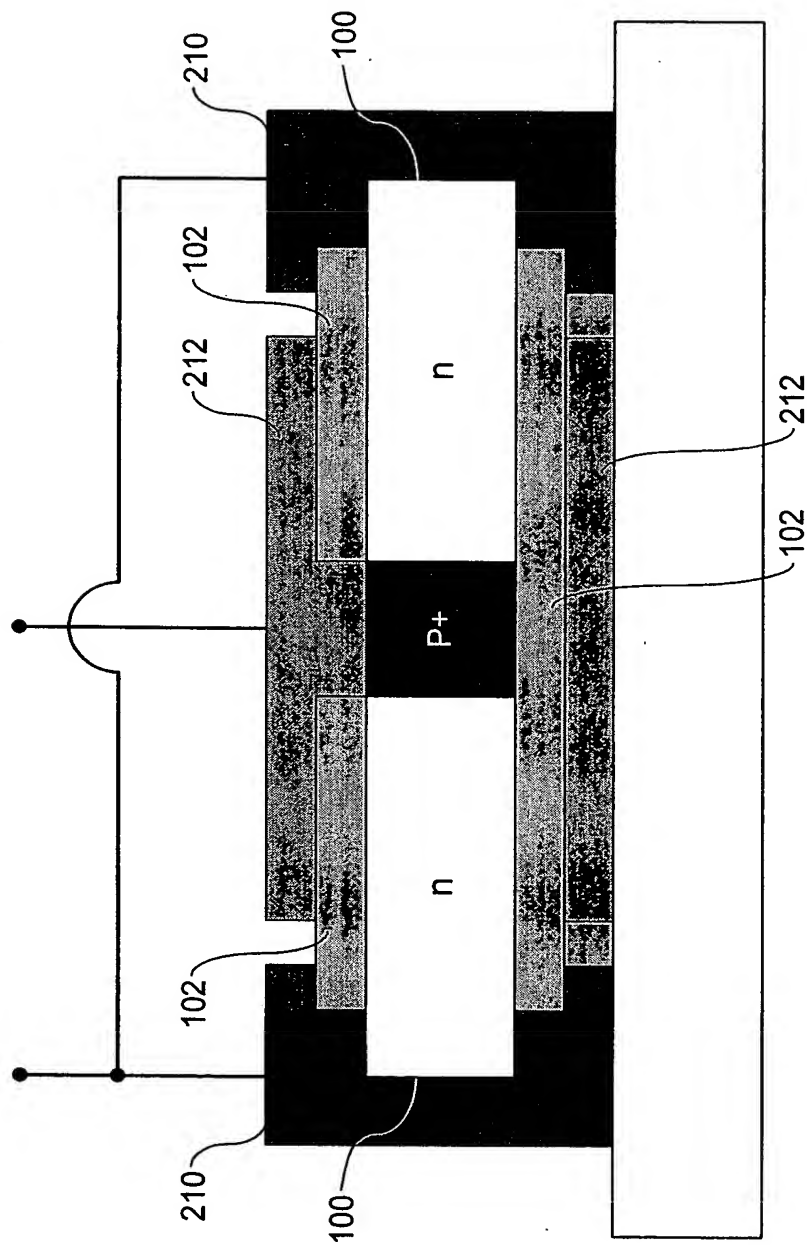


FIG. 2A

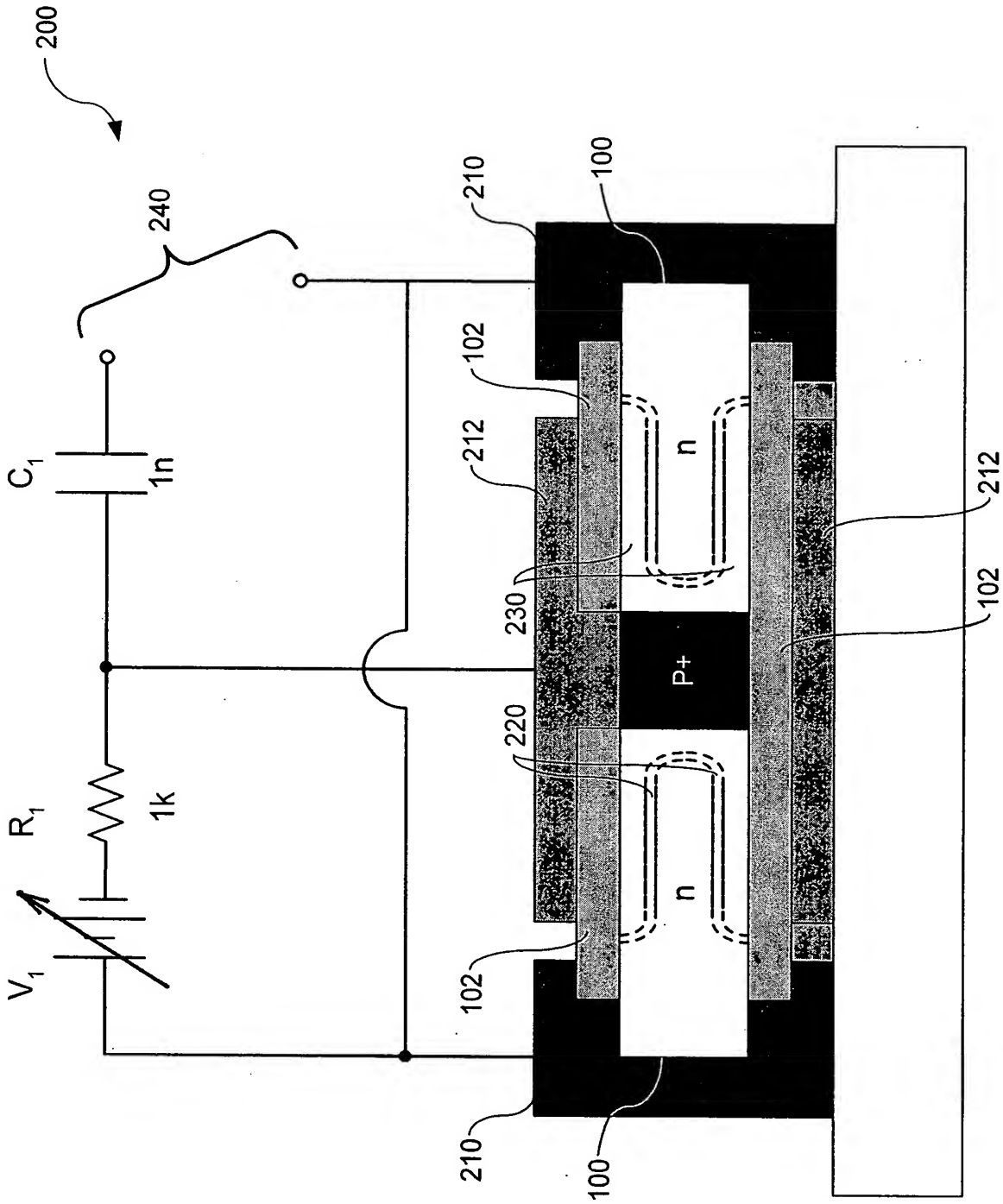


FIG. 2B

Diameter of Si nanowire that can be fully depleted as a function of doping concentration  
 $d^2 = 32 * (\epsilon_0 \epsilon_{Si} / N) / q * E_f$   $E_f = kT / q * \ln(N / n_i)$ , N: doping concentration

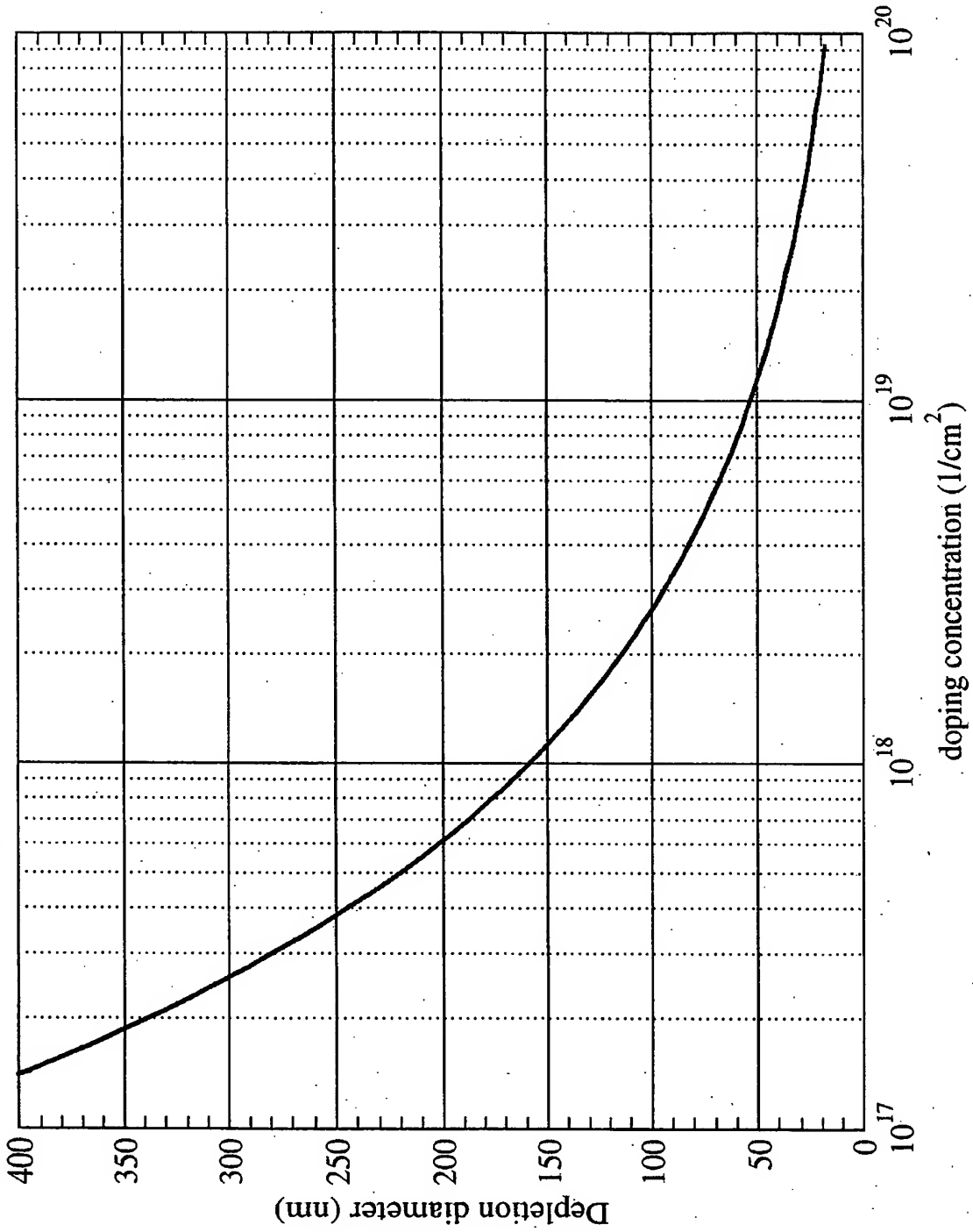


FIG. 3